

## Electronic Acknowledgement Receipt

<b>EFS ID:</b>	8735723
<b>Application Number:</b>	10567424
<b>International Application Number:</b>	
<b>Confirmation Number:</b>	4429
<b>Title of Invention:</b>	Mutations in Ion Channels
<b>First Named Inventor/Applicant Name:</b>	John Charles Mulley
<b>Customer Number:</b>	25297
<b>Filer:</b>	Arles A. Taylor/Belinda Perkins
<b>Filer Authorized By:</b>	Arles A. Taylor
<b>Attorney Docket Number:</b>	1386/23
<b>Receipt Date:</b>	29-OCT-2010
<b>Filing Date:</b>	09-DEC-2008
<b>Time Stamp:</b>	17:08:33
<b>Application Type:</b>	U.S. National Stage under 35 USC 371

### Payment information:

Submitted with Payment	no
------------------------	----

### File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	NPL Documents	GeneCardforSCNA1.pdf	1109156 627e3fd3e846281be292170b81729e1ddf3e9e55	no	10

### Warnings:

### Information:

2	NPL Documents	GeneCards.pdf	1184424	no	20
			f93de00711e1485c17b6f8117ed7fd6e311eb275		
Warnings:					
Information:					
3	NPL Documents	Gennaro2003.pdf	670520	no	5
			a7a349e7d35563681d671509104d1b3b8341376c		
Warnings:					
Information:					
4	NPL Documents	Geysen.pdf	1029917	no	10
			c65aae7d7a46de94b58cbb75b0b1687f7d79f071		
Warnings:					
Information:					
5	NPL Documents	goldsby.pdf	154800	no	3
			05664f0f1ff3e9566d8dac2f7b17238e37443efc		
Warnings:					
Information:					
6	NPL Documents	Greenberg1992Evidence.pdf	1555734	no	7
			e810c7eb3b287a8a53c480ef40af0a8775a88536		
Warnings:					
Information:					
7	NPL Documents	Greenberg1988Juvenile.pdf	1539292	no	8
			88a299b94c6abda95c34f6a995723cdcbef7a49		
Warnings:					
Information:					
8	NPL Documents	Greenberg.pdf	2202264	no	14
			4e6a7b64cd0ab6a9c830fef05707e82d78d466e8		
Warnings:					
Information:					
9	NPL Documents	Harkin.pdf	1032763	no	29
			5b77c9228fcb88d36ee5d1205bf02c6c51740a05		
Warnings:					
Information:					
10	NPL Documents	Hauser.pdf	2466732	no	16
			0f91e744de4fb81cb0132bb4ff06d9be478749bd		
Warnings:					
Information:					

11	NPL Documents	Hille.pdf	5086915	no	13
			db249b7f47e2318b1f0ed5ff5263a94732ed935d		
Warnings:					
Information:					
12	NPL Documents	HirschhornMar-Apr2002.pdf	1651750	no	17
			d99e17f342cbdeee2c57aa4dda317d93d499283a		
Warnings:					
Information:					
13	NPL Documents	ISR05_14_2004.pdf	150676	no	4
			5958a5e0412251fb8e4ce1cd9d222c8adf5f27a1		
Warnings:					
Information:					
14	NPL Documents	11262647InterviewSummary12_05_2008for1386_13_2.pdf	670262	no	10
			0aed8bc120005b26389c6d11824168777c273960		
Warnings:					
Information:					
15	NPL Documents	10806899InterviewSummary11_23_2009for1386_19.pdf	111085	no	2
			dea93af38f02bef5cd079bae5425e0e3c44a9792		
Warnings:					
Information:					
16	NPL Documents	10806899InterviewSummary10_08_2009for1386_19.pdf	123386	no	2
			b4485e16ed2ffd3a8004b6239b69351a3be9c906		
Warnings:					
Information:					
17	NPL Documents	10806899InterviewSummary11_01_2007for1386_19.pdf	170699	no	3
			d6b28bd47d6e7b42b00bdfa310b4471b3eb57866		
Warnings:					
Information:					
18	NPL Documents	Janz.pdf	1570850	no	8
			9007a077b2fc97d07d3a4ed11429a923c8ecd29e		
Warnings:					
Information:					
19	NPL Documents	Kanai2004.pdf	828927	no	6
			cd7329d9c89910f31a6c39a35d359b76982c7dc6		
Warnings:					
Information:					

20	NPL Documents	Guerrini.pdf	567455	no	5
			013936f3cc18adb26ab1610bd00205ae287eafe		
Warnings:					
Information:					
21	NPL Documents	kimura.pdf	543711	no	7
			e4d2966411d8bfe4814cf8d04c01feaa9938bc0		
Warnings:					
Information:					
22	NPL Documents	Kinzler.pdf	651797	no	5
			48c563729d3289cbc3701c29b578f3ac4728b1db		
Warnings:					
Information:					
23	NPL Documents	Kuhn.pdf	1444241	no	17
			9bee4e7f45205579f2b6f372cf8856dfe3ab33b8		
Warnings:					
Information:					
24	NPL Documents	Lason.pdf	337933	no	4
			72156ae493150ab76f2b87be08e3d4b5213deca9		
Warnings:					
Information:					
25	NPL Documents	Lerche.pdf	1211710	no	15
			3c344b6f29de52d89e4f39b50894c030a6e7ef95		
Warnings:					
Information:					
26	NPL Documents	Lernmark.pdf	357683	no	2
			5878b2b5c60e6f37d94174eb6e458d09cf28fa72		
Warnings:					
Information:					
27	NPL Documents	Lo.pdf	747089	no	6
			c813eeddaf0a5c1c077b690331292b9b7ad9ccc7		
Warnings:					
Information:					
28	NPL Documents	LopesCendes.pdf	284284	no	4
			16c40bff7d0f856390c337c100f407bcb65cb38a		
Warnings:					
Information:					

29	NPL Documents	lucenti.pdf	130787	no	1
			f3d9ef1570bf506f3fcc3cce5622a9038b402fb5		
Warnings:					
Information:					
30	NPL Documents	Madia.pdf	363508	no	5
			0aa734d3993415052b0627878a5d737ce6030ea9		
Warnings:					
Information:					
31	NPL Documents	Malacarne.pdf	303810	no	4
			a8c5be0bc5c9485a6adb49bf1e188e81256b343e		
Warnings:					
Information:					
32	NPL Documents	Maxam.pdf	481423	no	5
			6021f47e8165a696fb88f10c3f41b7987ff35676		
Warnings:					
Information:					
33	NPL Documents	Mazumder.pdf	1011909	no	8
			028efdb26b222fdffaa2fa3b73d4c8b54b1630b53		
Warnings:					
Information:					
34	NPL Documents	Modrich.pdf	1681696	no	25
			657c454df1ce125809777af23fed0c6a972d6cac		
Warnings:					
Information:					
35	NPL Documents	Moran.pdf	381927	no	5
			3af82b220a07e0e3c41df8d983abdee91b741b7a		
Warnings:					
Information:					
36	NPL Documents	Moulard.pdf	372911	no	5
			590fc3e9e1288c7718c6a571c1aa6b98a0314e0b		
Warnings:					
Information:					
37	NPL Documents	Mulley2005.pdf	752695	no	15
			83d9bd337b60208b73a446bd9c24ac65b4ae9aab		
Warnings:					
Information:					

38	NPL Documents	Mulley2003Channelopathies.pdf	536991	no	6
			de3aac6f735925648b6ce0f0d66e4e68ad7d4dd9		
Warnings:					
Information:					
39	NPL Documents	10451126NoticeofAllowance08_30_2005for138613.pdf	367911	no	7
			c43453f0041b5c1ceea0a2605394a57ca3c07e87		
Warnings:					
Information:					
40	NPL Documents	11263326NoticeofAllowance06_18_2007for1386_13_3.pdf	314315	no	6
			ac9dd0c674d4a0869b5358b544dae35d309d0991		
Warnings:					
Information:					
41	NPL Documents	11262647NoticeofAllowance12_18_2009for1386_13_2.pdf	696291	no	14
			f0061ae1677701fcb613f0af2ccb781f4db4cc8		
Warnings:					
Information:					
42	NPL Documents	10806899NoticeofAllowance01_04_2010for1386_19.pdf	764373	no	16
			8fcb33e659d58d1cda0c2e88e9b452d9491ba875		
Warnings:					
Information:					
43	NPL Documents	10482834FOA08_07_2009for1386_17.pdf	922040	no	19
			8220c5bbe195e0f695f4f81cd379f48def3348d9		
Warnings:					
Information:					
44	NPL Documents	10482834OA12_30_2008for1386_17.pdf	526279	no	21
			c00b51cf771e1e773782ddcca419953c81d3aa38		
Warnings:					
Information:					
45	NPL Documents	10482834OA04-04-2008for1386-17.pdf	865676	no	21
			cf4d6b223aab15d65d678ce63f79c10a68cf94dd		
Warnings:					
Information:					
46	NPL Documents	10482834OA08-02-2007for1386-17.pdf	1104863	no	28
			358d8faa0252c9066f3af971a11c86663d55fa57		
Warnings:					
Information:					

47	NPL Documents	10806899OA10_28_2009for1386_19.pdf	262509	no	5
			b4d2c0dfdb2194efd2172c84c06851660f61afd0		
Warnings:					
Information:					
48	NPL Documents	10806899OA05_13_2009for1386_19.pdf	464074	no	12
			32ac831050566cdf275a12a2b1c726807679f3dc		
Warnings:					
Information:					
49	NPL Documents	10806899OA08_19_2008for1386_19.pdf	2009884	no	34
			a3d7cdb1256bf39c7c4b45efb8d7478ce9249b1f		
Warnings:					
Information:					
50	NPL Documents	IPER01_03_2008.pdf	210430	no	6
			91e7d2aa0ac4dd3764ec2cb76f01f726788ed192		
Warnings:					
Information:					
51	NPL Documents	10806899OA06_26_2007for1386_19.pdf	1372304	no	33
			ca3fe25e51353555af212fb87c94a45a2228b511		
Warnings:					
Information:					
52	NPL Documents	10806899OA11_29_2006for1386_19.pdf	1122948	no	28
			e5120eac268dfa4565b96704d989662d6f4f373		
Warnings:					
Information:					
53	NPL Documents	11263326NFOA10_06_20061386_13_3.pdf	334659	no	7
			bcbfe17ee5a49c4553fc44efd2f00bd4b30048ff7		
Warnings:					
Information:					
54	NPL Documents	11262647NFOA04_22_2009for1386_13_2.pdf	5350774	no	116
			047883858cb1c9c7262f6b4869135d5fa2304c6f		
Warnings:					
Information:					
55	NPL Documents	11262647OA02_15_08for1386_13_2.pdf	947747	no	20
			b2ab40f3a60921d4303b037b6a46b7968c30b847		
Warnings:					
Information:					

56	NPL Documents	10451126OA01_24_2005for1386_13.pdf	690677	no	13
			fc02345885a692c2e11be532a9d0e5932ee17bbb		
Warnings:					
Information:					
57	NPL Documents	Ohmori2002BichemicalandBiophysical.pdf	1436336	no	7
			034c04c2d6ecab88d205413866863c5c1e2e37ed		
Warnings:					
Information:					
58	NPL Documents	Ohtahara1995.pdf	418077	no	6
			97b48daff03b78b9ce40a740500934d5bda4ea61		
Warnings:					
Information:					
59	NPL Documents	Ohtsuka1990LongtermPrognosis.pdf	434017	no	8
			7a2b2c9f7a4dd6ff729db037fa0999610e5f2903		
Warnings:					
Information:					
Total Files Size (in bytes):			56089896		

**This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.**

**New Applications Under 35 U.S.C. 111**

**If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.**

**National Stage of an International Application under 35 U.S.C. 371**

**If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.**

**New International Application Filed with the USPTO as a Receiving Office**

**If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.**